

36PA

BLDC PLANET GEAR MOTOR

36ZWN50

直流无刷行星齿轮减速电机



## Motor specifications/马达参数

电机型号 Model #	额定电压 Rated Voltage	空载转速 No-load speed	空载电流 No-load Current	额定转速 Rated speed	额定电流 Rated Current	额定力矩 Rated Torque	堵转电流 Stall Current	堵转力矩 Stall Torque	额定功率 Rated Power
36ZWN50-1228	12V	2800rpm	140mA	2030rpm	500mA	200g.cm	1.85A	1013g.cm	4.20W
36ZWN50-1242	12V	4200rpm	290mA	3676rpm	520mA	100g.cm	1.70A	1500g.cm	3.77W
36ZWN50-2440	24V	4000rpm	130mA	3000rpm	240mA	125g.cm	2.00A	2000g.cm	3.84W

## Gear Motor Technical Data/齿轮减速电机主要参数

## 36PAXXXG/36ZWN50-1228

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	756	538	206	146	104	55	39	28	20	15	10	7.6	5.4	3.9
Rated Speed (rpm)	548	390	149	106	76	40	28	20	15	11	7.7	5.5	3.9	2.8
Rated Torque (kg.cm)	0.63	0.88	1.9	2.8	3.9	6.2	8.6	12	17	19	27	30	30	30
Max load (kg.cm)	15		30			60				90				
Gear Box Length(mm)	31		38.8			46.5				54.3				

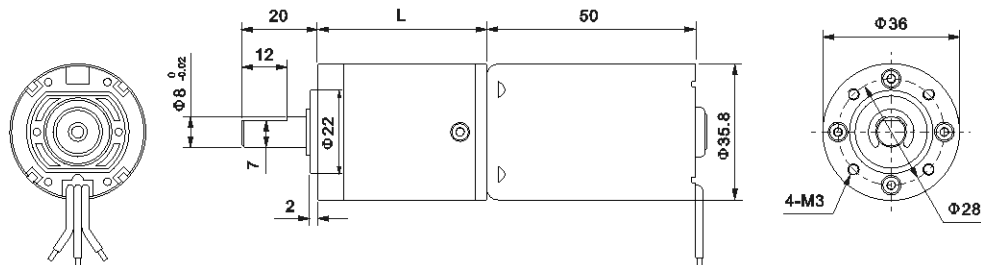
## 36PAXXXG/36ZWN50-1242

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1135	807	309	218	157	82	59	42	30	22	16	11	8.1	5.8
Rated Speed (rpm)	993	707	270	191	137	72	52	37	26	19	14	9.9	7.1	5.1
Rated Torque (kg.cm)	0.3	0.44	1.0	1.4	1.9	3.1	4.3	6.1	8.5	9.8	13	19	27	30
Max load (kg.cm)			30			60				90				
Gear Box Length(mm)	31		36.8			46.5				54.3				

## 36PAXXXG/36ZWN50-2440

Reduction ratio (1:X)	4	5	13	19	27	51	71	100	139	189	264	369	515	720
Stage (#)	1		2			3				4				
No-load Speed (rpm)	1081	769	294	208	149	78	56	40	29	21	15	11	7.7	5.5
Rated Speed (rpm)	811	577	220	156	112	59	42	30	22	16	11	8.1	5.8	4.2
Rated Torque (kg.cm)	0.4	0.6	1.2	1.7	2.4	3.8	5.4	7.6	10	12	17	24	30	30
Max load (kg.cm)	15		30			60				90				
Gear Box Length(mm)	31		36.8			46.5				54.3				

## Dimensions/外形和安装尺寸



1. 红色引线: 电源正极/RED; power supply positive terminal
2. 黑色引线: 电源负极/BLACK; power supply negative terminal (GND)
3. 白色引线为正反转控制端。当此脚悬空时, 电机转向为CCW, 当此脚与电源负极连接时, 电机转向为CW。/ WITH: motor rotation direction control terminal. (When terminal is OPEN = CCW; when this terminal is connected to power supply negative (GND) = CW)
4. 电源正负极切勿接错, 否则会损坏机器。正反转控制端切勿与正极发生碰触, 否则会损坏机器。/ When apply power to the motor, do not mis-connect the positive and the negative terminals, which will damage the internal driver. Never connect the rotation direction control terminal to the power supply positive, which will damage the internal driver too.

## Product Code/型号定义

36	PA	27G	36	ZWN	50	1228
机座号 Frame size 36=Φ36mm	行星齿轮 Planetary	减速比 Gear Ratio 27=27:1	马达直径 Motor size 36=Φ36mm	马达类型 Motor Type	马达长度 Motor Length 50=50mm	电压/转速 Voltage and speed 12=12V, 28=2800rpm